

AMENDMENTS TO THE ABSTRACT

Please replace the Abstract with the following rewritten Abstract:

Method for controlling the feed air temperature of a passenger aircraft

With a method for controlling the temperature of feed air supplied to a cabin area of a passenger aircraft (10), a measurement value for the ambient temperature in the cabin area is determined by means of a temperature sensor system (24). The temperature of the feed air is controlled, dependent upon a deviation of the ambient temperature measurement value in relation to an ambient temperature optimum value. In accordance with the invention, the ambient temperature measurement value is deduced from a number of individual temperature values for different points in the cabin area. In accordance with an example, the temperature sensor system used to establish individual temperature values for a cabin zone includes a number of discreet temperature sensors (24) positioned in this cabin zone, each of which provides an individual temperature value. Preferably, the temperature sensors (24) are distributed evenly over the whole length of the cabin zone in question.

A passenger aircraft includes a cabin subdivided into a plurality of cabin zones supplied with feed air from respective supply lines, a plurality of temperature sensors, and an electronic control unit coupled to the plurality of temperature sensors. The plurality of temperature sensors measures a plurality of individual ambient temperature values associated with different locations in at least one of the plurality of cabin zones. The electronic control unit derives an actual ambient temperature value for the at least one cabin zone from the plurality of individual ambient temperature values. The electronic control unit then controls a temperature of the feed air supplied to the at least one cabin zone based on the difference between the actual ambient temperature value and a room temperature target value for the at least one cabin zone.